

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

VISWANADHA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

MINDIVANIPALEM (VILLAGE), SONTYAM(POST),
ANANDAPURAM(MANDAL), VISAKHAPATNAM(DIST).

531173

www.vitamenggcollege.com

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2018

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Viswanadha Institute of Technology and Management was founded by Viswanadha Educational Society, with a vision of providing quality and value-based technical education at Visakhapatnam in 1998. The college offers 5 B.Tech (Civil, Mech, ECE, EEE, CSE) and 5 M.Tech (CE, ME, ECE, EEE & CSE) courses and MBA. The college is affiliated to JNTUK and approved by AICTE.

Salient features

- 2 lakh Sq.ft towards academic activities along with playground, indoor sports complex, auditorium.
- Vibrant pool of young and experienced faculty.
- Research wing-CENTRE OF EXCELLENCE and RELEVANCE
- MoU's with Industries for training, internships and placements.
- Excellent conventional library as well as a sophisticated digital library
- Well equipped laboratories and sophisticated workshops
- Training in soft skills, ethical values and personality development.
- Campus Recruitment Training
- Previously certified with ISO 9000 in 2004 and accredited by NBA in the year 2008 in all branches.

Graded A by Andhra Pradesh State Government.

Vision

To develop Engineers, Scientists, Technocrats and Managers thorough quality instruction in an environment of Research & Development and distinct work culture, who would inculcate lifelong learning process, leadership qualities and be competent to handle any global challenge.

skills including leadership, team- building and communication skills, and inspire them to work and dedicate themselves for the advancement of humanity.”

Mission

“To provide an environment with state-of-art infrastructure and equipment, where the faculty impart knowledge through student-centric learning methodologies so as to meet the present national and global changing needs. To orient the students towards research through R & D cell and sponsored projects. Inculcate soft skills including leadership, team- building and communication skills, and inspire them to work and dedicate themselves for the advancement of humanity.”

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Awarded “A” grade by the Government of Andhra Pradesh.
2. Student centric teaching methodology with e-classrooms.
3. Excellent Research and Development cell and has executed a good number of projects for NSTL, Visakhapatnam.
4. Well established labs with state of art equipment and software.
5. Wi-Fi enabled campus.
6. Centralized library with large number of titles and volumes. Digital library with access to e-journals
7. Imparts human values by conducting social awareness activities in surrounding villages of the college as a part of NSS activity.
8. Mineral water plant with RO equipment providing drinking water facility for entire college campus.
9. Free transportation and scholarship facility for poor students.

Institutional Weakness

1. College is 1.5 km away from the main road (Pendurthy-Anandapuram NH-16) which causes a bit of inconvenience for visitors during odd hours.
2. Girl students from other regions do not take admission due to the lack of girls' hostel within the campus.
3. Students with poor EAMCET rank are getting admitted for the past five years.

Institutional Opportunity

1. Motivating and encouraging students to become an Entrepreneur.
2. Engineering consultancy to Local Industries.
3. Organising and conducting workshops and expert talks on latest emerging technologies to develop student employability skills in global workspace.
4. Improvement of Faculty and student exchange programmes with National and International Institutes.

Institutional Challenge

1. Retaining qualified and passionate faculty who can contribute for the overall development of students and thereby the region and Nation.
2. Meeting the ever changing requirements of industry and society as a whole.
3. Improving communication skills of students hailing from rural background who are very good in technical competencies.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college has well defined mission statements and strives to attain its vision with an organised planning. The faculty clearly outline the course plan for the academic year well in advance with annual plan, lesson plan, lecture notes, lab manuals and bridge classes when necessary. The affiliating university prescribes the curriculum and the academic programs are accordingly scheduled. When gaps are defined, they are addressed by conducting guest lectures, seminars and workshops with the involvement of industrial personnel, and

professors from recognised institutions. With a pool of diversified students, measures are taken to address slow performers by way of remedial classes and enriching advanced learners with challenging tasks/projects. Value added courses like Professional Ethics and Human values, Environmental studies, Intellectual Property Rights and Patent, Green Engineering Systems etc., are included in the syllabus and are also introduced in co-curricular activities so as to mould the students in serving the society. Additionally special workshops and training programmes in tune with the latest developments are organised. Campus Recruitment Training programs are organised on a regular basis to make the students readily employable and are well placed through campus selections. Highest priority is given in setting the targets as per the needs of the stake holders and the functional mechanisms are periodically revived. The faculties are very dedicated to achieve the mission of the college.

Teaching-learning and Evaluation

Admissions are made into UG and PG programs under A and B categories by the AP State Council of Higher Education as per the norms and guidelines of Andhra Pradesh State Government. Well-designed pedagogy is supplemented with industrial visits, hands-on-training, guest lecturers, seminars, workshops etc., an effective mentoring system is established to assess and guide in all-round development of the stakeholder. All programs are conducted through clearly defined learning outcomes and their evaluation is reflected by student performance in assignments, quiz, midterm test and semester end exams. Corrective measures are applied after each assessment to improve the performance. In addition, Course - end surveys are conducted and analysed to assess attainment of outcomes. This is structured with efficient staff with well defined objectives to attain the set goals of the institute.

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Research, Innovations and Extension

The institute has a research centre (Centre of Relevance and Excellence) which helps in augmenting the academic growth of the students and faculty. The R&D facility has projects from NSTL for a tune of 30 lakhs which have helped students receive hands on experience. The institute always encourages both the students and staff to come out with their innovative ideas and assists to bring them to practicality in consultation with the experts in relevant fields. The institution has MOU's with various industries to educate the staff and students with recent developments in technology. Various workshops, seminars are conducted in collaboration with the industries to keep the students abreast with the recent developments in technology. Research papers are published by the staff in various conferences and in standard national and international journals. Books on 'Engineering Drawing' and 'Theory of Machines' were published by the faculty of this college.

To imbibe the qualities of social responsibilities among the students, the college regularly organises several activities in co-ordination with the NSS wing. The NSS unit of the collage has been appreciated for its activities by the affiliating university for inculcating a helping nature and sense of humanity amongst the students. Adoption of a nearby village, educating village members on use of technology in everyday life, facilitating aids for school students, health awareness program, tree plantation, Aadhar card distribution etc. are some amongst several drives conducted by the NSS wing.

Infrastructure and Learning Resources

The College has established policies and procedures to create and continuously enhance the infrastructure in the form of built-up space, laboratory equipment, learning resources, etc. The requirement of infrastructural facilities is prepared by the academic committee, approved by the governing body council and the annual budget is prepared. The college is sensitive over the needs of physically disabled students and in this regard, ramps have been provided in campus for a barrier free access. Separate toilet facilities have also been provided with. Hostel facility is available for boys and limited facility is available for girls.

The institute gives utmost priority in upgrading the library facilities. The College library procures text books as per the requirements given by the departments and the digital library allows access to various journals and technical magazines to provide effective tool for the instruction delivery. Lectures of eminent professors on various subjects are compiled and made available in the central and department libraries for the use of faculty. Lectures through MOOCS and SWAYAM are also conducted as per designed schedule.

Internet service is available for both faculty and students in campus via LAN and wifi. The college provides internet facility to staff members at the respective departments for availing e-resources and deliver lectures which will help them to improvising teaching learning process. Regular updating and up gradation are taken up by the institute to provide a continual support to the faculty in reaching the outcomes.

Student Support and Progression

The heads of the departments will identify also oversee the process of student counselling and take required remedial measures in their departments. A counsellor is allotted for every 15 student's right from the first year. The counsellors monitor the academic progress of each student and provide the required counselling to see that all the students excel in their studies. They frequently interact with the parents of irregular and academically weak students and take their support in nurturing all such students.

Majority of our students seek employment through campus placements. However there are some students who go for higher students to improve qualification and contribute their knowledge to society. The Entrepreneur Development Cell (EDC) and Industry Institute Interaction Cell (IIPC) aim at supporting students with self employable skills.

Several committees are constituted to address student/ gender/ women related issues and immediate action is taken solve the same. The students are also made members in these committees to encourage their participative management. Sports facilities have also been well established to bring about a holistic development in the students. Facilities like cricket ground, volley ball court, basket-ball court, and indoor stadium with all amenities are available.

Governance, Leadership and Management

The Institution is dedicated for the up-liftment of the student community without any discrimination. The management is committed for the overall development of the institute and to make it a nodal point of academic excellence. The changing demands of the industry and the needs of the stakeholders are given high priority and the strategies are accordingly planned. The institute believes in achieving success by decentralising the responsibilities of the Principal, Heads of various Departments, Administrative officer and other important personnel of the institute with well-defined duties and responsibilities. Administrative manual approved by the governing body is strictly adhered. The management is committed to follow the Quality Assurance Policies as mentioned in the Quality document of the college. For good governance of the institution and its smooth running, the management has constituted several statutory bodies such as Governing body, Institutional Internal Quality Assurance Cell (IIQA), and College Academic Committee (CAC). The college strictly sticks to the rules and regulations and the academic calendar as stipulated by JNTUK and AICTE. The Institute encourages its staff members to participate in various quality improvement programs to upgrade their knowledge and help in improving the quality of education.

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Institutional Values and Best Practices

Nestled amongst lush greenery, the institution is very conscious towards conservation, safety and sustainability of environment. The college gives utmost importance to create eco-friendly environment in the campus and funds are allocated in the annual budget for proper maintenance of all its facilities and beautification of campus with greenery.

The maintenance department of the college organizes green audits on a periodic basis which has made the campus an eco-friendly environment. The campus and its gardens consist of good number of rain water harvesting structures, large number of trees and efficient waste management system.

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2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	VISWANADHA INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Address	Mindivanipalem (Village), Sontyam(Post), Anandapuram(Mandal), Visakhapatnam(Dist).
City	Visakhapatnam
State	Andhra Pradesh
Pin	531173
Website	www.vitamenggcollege.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	VURITY SRIDHAR PATNAIK	0891-2539007	9440425849	-	vitamcoe98@gmail.com
IQAC Coordinator	N.V.V.S.Suryanarayana	-	8919828096	-	vitam_coe@yahoo.co.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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Date of establishment of the college	01-01-1998			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada		View Document	
Details of UGC recognition				
Under Section	Date		View Document	
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
No contents				

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Mindivanipalem (Village), Sontyam(Post), Anandapuram(Mandal), Visakhapatnam(Dist).	Rural	17.42	18696

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	INTERMEDIATE	English	120	4
UG	BTech,Electrical And Electronics Engineering	48	INTERMEDIATE	English	60	2
UG	BTech,Mechanical Engineering	48	INTERMEDIATE	English	120	32
UG	BTech,Electronics And Communication Engineering	48	INTERMEDIATE	English	60	19
UG	BTech,Computer Science And Engineering	48	INTERMEDIATE	English	60	21
PG	Mtech,Civil Engineering	24	B.TECH	English	18	16
PG	Mtech,Electrical And Electronics Engineering	24	B.TECH	English	18	8
PG	Mtech,Mech	24	B.TECH	English	18	13

	anical Engineering					
PG	Mtech,Electronics And Communication Engineering	24	B.TECH	English	18	0
PG	Mtech,Computer Science And Engineering	24	B.TECH	English	18	4
PG	MBA,Management Studies	24	B.TECH	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	16				33				98			
Recruited	14	1	0	15	13	4	0	17	66	25	0	91
Yet to Recruit	1				16				7			
Sanctioned by the Management/Society or Other Authorized Bodies	16				33				98			
Recruited	14	1	0	15	13	4	0	17	66	25	0	91
Yet to Recruit	1				16				7			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				60
Recruited	34	20	0	54
Yet to Recruit				6
Sanctioned by the Management/Society or Other Authorized Bodies				60
Recruited	34	20	0	54
Yet to Recruit				6

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				20
Recruited	17	0	0	17
Yet to Recruit				3
Sanctioned by the Management/Society or Other Authorized Bodies				20
Recruited	17	0	0	17
Yet to Recruit				3

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	9	1	0	1	0	0	0	1	0	12
M.Phil.	0	0	0	0	1	0	0	2	0	3
PG	1	0	0	12	3	0	64	22	0	102

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	0	0	0	0	0	0	0	0	4
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	2	0	0	2

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	673	0	0	0	673
	Female	129	0	0	0	129
	Others	0	0	0	0	0
PG	Male	116	0	0	0	116
	Female	47	0	0	0	47
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	9	13	17	9
	Female	2	2	3	4
	Others	0	0	0	0
ST	Male	1	0	6	4
	Female	0	1	1	0
	Others	0	0	0	0
OBC	Male	154	138	285	144
	Female	13	22	55	39
	Others	0	0	0	0
General	Male	59	42	65	33
	Female	8	10	17	10
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		246	228	449	243

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response : 11

Number of self-financed Programs offered by college

Response : 0

Number of new programmes introduced in the college during the last five years

Response : 0

3.2 Students

Number of students year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
916	1047	1051	1342	1597

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
325	325	427	427	427

Number of outgoing / final year students year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
265	343	447	502	477

Total number of outgoing / final year students

Response : 2034

3.3 Teachers

Number of teachers year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
120	96	94	99	130

Number of full time teachers year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
120	96	94	99	130

Number of sanctioned posts year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
141	112	112	112	156

Total experience of full-time teachers**Response : 1192****Number of teachers recognized as guides during the last five years****Response : 5****Number of full time teachers worked in the institution during the last 5 years****Response : 539****3.4 Institution****Total number of classrooms and seminar halls****Response : 50****Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
340.95	371.52	676.57	931.8	421.95

Number of computers

Response : 457

Unit cost of education including the salary component(INR in Lakhs)

Response : 56960

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 24960

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

VITAM is affiliated to **Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh.**

- Institute follows the curriculum as prescribed by the Jawaharlal Nehru Technological University, Kakinada (JNTU-K).
- The academic calendar, being provided by the University, is followed.
- The academic council of the institute plans the strategy for the effective delivery of the academic curriculum as prescribed by JNTU-K by designing annual plans incorporating regular teaching methods with innovative practices.
- Each department prepares the annual plans for academic and other activities for the semester and prepares a calendar of events too.
- The faculty members prepare the course file which comprises of syllabus, individual time-table, lesson plan, lecture notes and assignments for their respective subjects prior to the beginning of the semester. In addition to the lesson plan, lab manuals for the laboratory classes are prepared for each subject by the faculty and distributed to the students.
- Bridge classes are conducted for the students as a prerequisite for the subject as needed.
- The lectures are delivered by conventional teaching methods along with presentations, videos, Massive open online course ware (MOOCS) and NPTEL. Special lectures are conducted by inviting distinguished faculty engineers from reputed Universities/Institutes and Industries.
- Industrial visits are arranged by all the departments to bridge the gap between theoretical knowledge and programmatic observation. Also, student internships are supported by the industries.
- Internal/ end semester examinations for students are conducted in each semester as per the scheduled dates of academic calendar.
- Remedial classes are conducted for different subjects for the academically weak students for improving their performance.

Various plans for effective monitoring of the curriculum have also been developed by the institution.

Details are as follows:

- Specific Vision and Mission have been defined by each department in tune with the institution's Vision and Mission.
- Program Education Objectives (PEOs) are developed in consultation with management, faculty members, students, technical staff, stakeholders (alumni, parents, employers etc). These are updated from time to time on the basis of feedback received from various bodies.
- Each program of the department is elaborated in terms of Program Outcomes which are aligned with graduate attributes. Moreover, Course Outcomes (COs) for every subject taught, are formed by

individual faculty members.

- The progress of curriculum is monitored fortnightly through HOD and Principal.
- The Class attendance registers maintained by faculty members contains entries like class wise student attendance, topics covered, mid exam marks, assignment marks. These attendance registers are scrutinized monthly by the HOD and The Principal.
- Feed back on timely curriculum delivery is also obtained from the stake holders.

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 0

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 2.78

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	0	0

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 0

1.2.1.1 How many new courses are introduced within the last five years

File Description**Document**

Details of the new courses introduced

[View Document](#)**1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented****Response:** 90.91

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 10

File Description**Document**

Name of the programs in which CBCS is implemented

[View Document](#)**1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years****Response:** 53.27

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
491	513	562	753	865

File Description**Document**

Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs

[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum**Response:**

The institute is a co-educational group, wherein boys and girls are advocated to work collectively in

various activities. Equable opportunities are given to boys and girls in diverse committees constituted by the institute. 'Environmental studies' is one of the courses in the curriculum prescribed by the university, which allows the student to study and contemplate on the issues of environment. The group is keen in playing a responsible role in up keeping green environmental practices and sustainability by way of developing rain water harvesting, tree plantation, and clean surroundings to uphold the idea of 'Swatch Bharath'.

Our institution has a women's grievance cell to handle issues regarding the women's right and safety. The cell is constituted with senior lady faculty as members along with a counseling and girl students creating a portal to express any issues and are with immediate effect resolved.

All the boys and girls collectively participate in tree plantation, organizing medical camps, blood donation camps and many others. Other than this, the group takes vital efforts in the form of quiz, debate and poster competition on the issues like Gender sensitization, climate change, Environmental education, Human Rights, and so forth. Each branch having its very own technical society and the NSS wing of the college are responsible for carrying out these activities all around the year.

The students are taught about the moral, ethical and behavioral values through soft skills classes and through talks by outstanding people in those fields. In addition, discipline and punctuality are inculcated in to their minds by the faculty.

As communication skills are indispensable for employment, the institute takes extra care of the development of verbal exchange skills of the students via personality development programs, group discussion, pre-placement training, debate, and essay writing competition and so on. The students of the college are also assigned as coordinating members in organizing various events and activities which includes cultural programs, competitions, seminars, workshops and so on. This in turn helps them improve their team building and organizational skills. The institute additionally organizes entrepreneur development program and intellectual property rights awareness program. Workshops are organized in the institute on yoga, life style and stress management by way of qualified experts.

Students are encouraged to participate in numerous multidisciplinary, advanced technologies; enterprise relevant training programs are conducted by the college various centers of in the university and in collaboration with multinational industries. Guest lectures are also arranged.

This holistic technique has led to all round the positive development with opportunities in employment and entrepreneurial improvement among the students.

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 5

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 5

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document

1.3.3 Percentage of students undertaking field projects / internships	
Response: 54.26	
1.3.3.1 Number of students undertaking field projects or internships	
Response: 497	
File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise</p> <p>A. Any 4 of the above</p> <p>B. Any 3 of the above</p> <p>C. Any 2 of the above</p> <p>D. Any 1 of the above</p> <p>Response: A. Any 4 of the above</p>
<p>1.4.2 Feedback processes of the institution may be classified as follows:</p> <p>A. Feedback collected, analysed and action taken and feedback available on website</p> <p>B. Feedback collected, analysed and action has been taken</p> <p>C. Feedback collected and analysed</p> <p>D. Feedback collected</p> <p>Response: D. Feedback collected</p>

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.44

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	2	6	8	8

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 30.03

2.1.2.1 Number of students admitted year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
141	268	149	171	268

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
570	570	750	750	750

File Description	Document
Institutional data in prescribed format	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 37.99

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
111	214	103	111	170

File Description	Document
Institutional data in prescribed format	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Every student, on admission, shall be put through a mandatory induction training to reinforce. The fundamental concepts and required language skills are required for the technical education. The induction programme for students will help them adjust to the new environment and inculcate in them. The ethos of the institution with a sense of larger purpose. This will promote excellence and bonding amongst the students, build relations between teachers and students, give a broader view of life, develop a sense of responsibility and enable character building. As per the guidelines of AICTE and JNTU, VITAM has introduced and implemented the induction program, scheduled for two weeks.

The bridge courses are conducted for covering the pre-requisite of the course for both regular students as well as students admitted directly into the second year as lateral entries.

Remedial class:

Remedial classes are conducted in the extra hours to the slow learners for improving their academic performance. In the extra hours, advanced learners have given opportunity to go through NPTEL videos and MIT lectures to enhance their conceptual skills. Here with the template formats of induction program schedule, remedial class work and bridge class work are attached.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio	
Response: 7.63	
File Description	Document
Institutional data in prescribed format	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls	
Response: 0	
2.2.3.1 Number of differently abled students on rolls	
File Description	Document
Institutional data in prescribed format	View Document

2.3 Teaching- Learning Process

<p>2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences</p> <p>Response:</p> <p>The institution in tune with its vision has facilitated an environment for the overall development of the students which would enhance their life with par knowledge and management skills. In addition to the conventional methods,</p> <ul style="list-style-type: none"> ◦ Lectures are delivered using LCD projectors, working/demonstration models, visual charts and Internet enabled classrooms. Software tools like MATLAB helps to design algorithms and test mathematical models and specialize in Matrix operations which are very important for researchers, Mentor graphics as a computer aided design tool for a hardware designer, Xilinx to understand advancements in process technology and device architecture used in high-performance computing(HPC) applications, Auto-Cad understand the students to design the blue prints used in architecture, construction and manufacturing, Staad.Pro to analyze any structure made up of construction materials, to aid students in conceptualized learning. ◦ Remedial classes are conducted for the benefit of slow learners. ◦ The college promotes every individual to participate in national and international academic activities ◦ The college alumni take active part in inviting guest speakers from their domain to motivate the students and faculty of their Alma mater. Guest-lectures by the leading industrialist and eminent personalities are organized by the college to inculcate entrepreneur development skills. ◦ Classes are undertaken in laboratory to help students visualize the concepts. ◦ Practical applications beyond the academic syllabus prescribed, are used for teaching. ◦ Interactive sessions like group discussions, role play, seminar, quiz and debate are conducted to enhance their participative learning.
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- Assignments are based on the self study texts. Students are encouraged to browse, prepare question banks and handouts related to subjects.
- Students also learn through assignments, model making, poster making, mini projects, internships and projects done in-house and outside the institution in tune with the latest technologies and aids in improving their problem solving skills. Industrial and field visits are organized for the students.
- The students are motivated to participate actively in the student chapters like IEEE, IE (I), IETE and CSI etc, wherein they interact with outside world.
- Department libraries and internet facility are maintained by the departments to access all the journals, e-material, e-books etc., through library server enabling the students and faculty to keep abreast of the latest developments in their respective fields.
- The institute hosts a central library containing a vast collection of textbooks, magazines on technical subjects, journals, e-books, NPTEL study material, project reports and biographies of renowned people.
- A digital library with internet access is made available for the student use for preparing paper presentations, assignments and project works.
- Training for students in personality development and communication skills are conducted to imbibe life skills.
- The faculty prepares the handouts as per the Guidelines of IQAC, to spread awareness on various issues like health, ecological concerns and communication skills.
- An active student participation in NSS and Sports integrates the wholesome development of students.

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 92.5

2.3.2.1 Number of teachers using ICT

Response: 111

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 19.08

2.3.3.1 Number of mentors

Response: 48

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

- Faculty development programs are conducted from time to time for new faculty to enhance the learning experience of the students.
- Staff are encouraged to publish papers and present papers in conferences, pursue PhD and involve in R&D work and discuss the same with the students so as to create a scientific temper all across the institution.
- P.G students are insisted to publish papers based on their project work prior to submission of their thesis for the award of M.Tech degree. The best projects in each department are also rewarded to motivate them.
- The members of the faculty use online video lectures such as NPTEL, MOOCS, SWAYAM, MIT Press and Stanford University for delivery of lectures and encourage students to use the same.
- The students, who are enthusiastic, are always given a chance to utilize the laboratory facilities in the campus to design their own applications and for their research activities.
- Students are motivated to take part in project related competitions and workshops like HACKATHONS, App Development, Tech fests, in and outside the college to gain hands-on-experience. Students are sent to several competitions conducted by IIT, IIIT and JNTU EXCITE programs.
- The management and the staff/faculty motivate and encourage the students to attend Tech fests, Youth fests and cultural activities which shall improve their skills and to develop creativity and critical thinking in the students.
- New ideas from the students are encouraged and rewarded if they stand to be innovative with practical application.
- Encourages students to take up industry oriented projects.
- College organizes seminars, debates, elocution competitions to improve Listening Speaking Reading and Writing skills and explore new ideas.
- Social activities and sports are encouraged among students to improve their team skills and leadership qualities.
- Eminent scientists, entrepreneurs and industry persons are invited by the college and they share their success stories with students.
- The college alumni meet once in a year. They interact with the existing batch and share their ideas as leading entrepreneurs and industrialists, which in turn motivates the students how to excel in their future.

The above mentioned practices are supported by the management to develop and improve the standards of the students for their career development and excel in life.

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 85.3

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years**Response:** 9.08

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
11	9	9	11	8

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience per full time teacher in number of years**Response:** 9.93

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years**Response:** 1.86

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	1	1	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 1.74

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	2	2	3

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

- The stake holders of the institution are made aware of all the rules and regulations governing UG/PG courses as per the norms of the JNTU Kakinada, through syllabus book and college website.
- The rules and regulations are also read in the classrooms and the copy is displayed in the respective notice boards. Students are clearly made aware of the eligibility conditions.
- The information on attendance requirement, internal assessment marks, eligibility for passing, maximum duration for course completion, promotion and eligibility to appear for examinations, electives, seminar & project, and so on are available in the booklet.
- The college academic committee conducts regular meetings with staff to review the evaluation process.
- Orientation Programs and events in basic pedagogy are organized in the beginning of every academic year.
- Faculty evaluation: A systematic feedback /class review from the students and parents is taken by the institution. The report is submitted to principal and college academic committee.
- Student Evaluation: College strictly adopts the JNTU-K evaluation process in two steps

1. Internal assessment

2. External Examinations

UG Assessment:

- Performance of a student in each semester is evaluated subject wise with a maximum of 100 marks for theory and 75 marks for practical subject. For theory subjects the distribution shall be 30 marks for Internal and 70 mark for the End Examinations. Internal Marks can be calculated with 80% weightage for best of the 2 mids and 20% weightage for other.
- A total of 200 marks for the project work, 60 marks for Internal Evaluation and 140 marks for the End Examination. The End Semester Examination shall be conducted by the committee.

PG Assessment:

- The performance of the candidate in each semester is evaluated subjectwise, with a maximum of 100 marks for both theory and practical, as Internal Evaluation and End Examination. For theory subjects 60 marks shall be awarded based on the performance in the End Examination and 40 marks awarded based on the Internal Evaluation.
- Every candidate is required to submit a thesis or dissertation on a topic approved by the PRC.
- The college strictly follows the rules of the university in evaluating internal papers written by the students and clearly made aware of their performance levels. If any discrepancy observed, the student can bring it to the notice of the teacher for appropriate action. A consolidated list of IA marks and attendance are prepared and displayed on the notice boards.
- The internal examination cell maintains the record of all the answer sheets and award lists.
- The Students can apply for Revaluation and Challenging valuation procedures of the end semester examinations.
- The college encourages the toppers in each semester by giving cash award and merit certificate so as to motivate them.
- Poor performance of students is evaluated frequently and at end of internal examinations and corrective measures like remedial classes is conducted to improve their performance.

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Academic evaluation

The institution is affiliated to JNTU Kakinada and hence governed by its rules. The rules and regulations pertaining to the assessment is communicated to the students every now and then through university syllabus book, circulars and by faculty members. Every subject (theory and labs) is assessed through internal and external exams. As per affiliating university norms Internal and external examinations are conducted for 30 and 70 marks respectively. Two internal examinations are conducted for each semester. The internal examination is designed to the point that they test the subject learning of the student, as well as his/her systematic and critical thinking abilities. Each internal assessment through the tests carries 25 marks (15 for subjective + 10 for objective). The best of 2 tests is considered. The assignments carry 5 marks.

The mid marks are displayed on notice board. Complete transparency is maintained during the process of internal assessment, by returning the evaluated scripts to the students to empower them check the marks and to draw the consideration of the teacher to the inconsistency, if any, either in awarding marks or totaling of marks.

Seminar and project work for UG are evaluated based on the strength of independent study, communication skills and presentation. For PG a project review committee is constituted and the same are evaluated.

Teacher evaluation in class tests, unit tests, projects and paper presentations is also done with complete transparency so as to allow student self-assessment of his performance

Overall assesment

The performance of the student and institutional assessment is done at different stages

1. Continuous assessment

By assessment in university prescribed examinations, projects, attendance, performance in co-curricular activities in institute, mentor inputs, participation in extra curricular activities like sports and NSS. The results of all the assessments are communicated to the students via notice board display, personal counseling and progress reports. The same is communicated to the parents during meetings to update on their wards progress.

1. Program end assessment

Course outcome, placements, exit survey, feedback from students, parents, alumni and employers. The results of the assessment are analyzed for gaps, deficiencies or successes and documented for implementations of new / same initiates for progression of the institution.

The outcomes are evaluated at every stage by the IQAC and are presented before the college academic committee and governing body council so as to introduce quality initiatives for the stakeholders.

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

One of the faculty members is nominated as full-time Controller of Examinations. Assistant Controllers of Examinations one for UG Programs and one for PG programs are nominated. Required number of ministerial staff is appointed exclusively for the examination cell. Operations are automated by procuring the required number of computers along with a server and requisite software. All these have helped in streamlining the examination processes, improving the functioning of examination cell and declaring the results in the schedule time.

The grievances with reference to evaluation are addressed as given below:

At college level:

The answer scripts of internal examinations are shown to the students after evaluation to bring out the discrepancies, if any, to the notice of teacher concerned, and the necessary corrections will be made.

If student is not satisfied with the marks awarded in any subject/ laboratory after bringing it to the notice of the teacher concerned, he/she may represent the same to the Chief- Superintendent of Examinations through the HOD concerned.

At University level:

The student is entitled to apply for revaluation in theory subjects by paying the prescribed fee to the University. The University will take up all such applications and re-evaluate the scripts by competent subject teachers. However, if there is no improvement, earlier marks will be retained.

The student is also eligible to apply for Challenge Revaluation in theory subjects by paying the prescribed fee to the University. Challenging Revaluation is carried out by two subject experts in the presence of student at the University. If the improvement in total marks is equal to or greater than prescribed percentage of the total marks, the fee paid will be refunded and further the improved marks will be treated as final marks in that subject.

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The academic calendar issued by the affiliating university forms the basis for designing the college academic calendar. To improve the academic standards special hours are incorporated in the college schedule to accommodate the needs to slow learners and advanced learners while creating an environment for all round development. The academic year schedule is provided by the university in advance and allows scope for incorporation of attributes for progression.

Before the scheduled dates prescribed by the University for Internal/mid Examinations the faculty submit the question papers and scheme of valuation to the examination cell. The exams are conducted by the examination cell as per rules set by the affiliating university. Online examinations are also conducted on the same day by downloading the question paper from the university exam portal adhering to the time frame set by the university. As the above mentioned activities are only during specified periods, the other days are allocated to instruction of classes as per subject and no of hours of instruction prescribed by the university and quality initiatives.

The calendar year is divided into two semesters, odd semester starting from June to October and second semester from November to April. All activities all planned well within the calendar months incorporating schedule for classes, examinations, labs, seminar, conferences, workshops, training and projects, placement drives along with extracurricular activities.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

The college has clearly stated all program outcomes, program specific outcomes and course outcomes for all programs. The faculty, industry and alumni are actively involved in preparing program outcomes, program specific outcomes and course outcomes of all programs in the college. The course outcomes of all the programs are made known to the students and staff by displaying in the website of the college. Individual copies of the regulation book are distributed to all the students which contain details of the course outcomes. Regulation books are also available in the library for student access. Orientation program for all the new students is conducted every year at the beginning of the academic year to educate about all course outcomes. At the beginning of the academic year, all the faculty members will prepare the course files and laboratory manuals. The course file contains Department's vision, mission, course syllabus, individual time table, program objectives, program outcomes, unit plan, lesson plan, course plan, unit wise material, direct and indirect assessments, student grading sheet, surveys/feedbacks collected from students. Each faculty takes responsibility as a mentor, counselor, facilitator, guide, assessor, evaluator, learner, and finally as a teacher in OBE system. The college collects the feedback from the students on course structure, infrastructure, faculty, information resources, evaluation, and the overall OBE system, to establish quality and continuously improve the program.

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Program outcomes are clearly stated for each program offered by this college. The learning outcomes are printed in Course structure in hand book form which is supplied to the students at the beginning of the course work. Further, they are also printed in handouts which shall be given at the beginning of each semester. Learning outcomes are displayed in the respective departments and also placed in the college website. The Program outcomes are presented and brought to the notice of all the staff members by The Head of the Department in department meetings.

The Program specific outcomes are discussed in the class rooms by Head of the Department and faculty members at the beginning of every semester to educate all the students on how to achieve these outcomes by the end of the course work of respective programs. Program specific outcome is assessed by the parameters such as the percentage of marks / CGPA and number of backlog subjects in each semester and accordingly remedial classes are arranged. Feedback on learning outcomes of theory and laboratory subjects are taken at the end of each semester and analyzed on a 5 - point scale.

Course outcomes are clearly defined for each course, both theory and laboratory. Interaction with the industry is arranged by way of regular industrial visits, carrying out industry oriented projects. Creative and challenging problems are given as home work and group assignments to the students. The achievement of course outcomes is monitored through the performance of students in their internal and semester end examinations, assignments, etc. Course end survey is conducted on program outcomes at the end of course work and is analyzed on a 5 - point scale. Alumni survey is taken from alumni every year and is analyzed on a 5 - point scale. Feedback from employers of our students is also taken and analyzed. The data collected from all the above sources is reviewed to assess the extent of achievement of program specific outcomes at department level. The assessment is used for improvements year-after-year by adopting new strategies to overcome the deficiencies, if any, in achieving the stated program outcomes.

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students

Response: 47.28

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 113

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 239

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 0.4

File Description	Document
Database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 1.35

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0.8	0.35	0.2	0	0

File Description	Document
List of project and grant details	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 2.5

3.1.2.1 Number of teachers recognised as research guides

Response: 3

File Description	Document
Institutional data in prescribed format	View Document

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0.04

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 4

File Description	Document
List of research projects and funding details	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

The VITAM has taken initiative steps towards developing ecosystem for innovations and various knowledge transfer methods by establishing Research and Development cell (CORE), Industry-Institute interaction cell and Incubation cell/Startup center.

The Institute has an active Research and Development Cell. It has undertaken several projects in consultancy for various organizations like NSTL. It inculcates a research mindset and problem solving capabilities. The institute aims to enhance this facility by deputing senior faculty to various research organizations for getting collaborative projects and adopting best practices. Management encourages the faculty to attend and present research Papers in various seminars and conferences at national and international level. Incentives towards paper presentation, attending R & D orientation workshops, seminars etc. have been initiated to allow faculty improvement and research motivation. Existing laboratories are modernized with additional equipment and experimental set-up to promote research activity in the campus.

Institute-Industry-Interaction cell aims to promote collaborations with industries for the benefit of students. They are encouraged to visit research oriented labs, industries such as Steel Plant, BHEL, etc. MoU's are entered into with local industries to allow student participation in industries as interns, trainees and prospective employees. Students are encouraged to do their major projects in Govt recognized research laboratories, industries and corporate houses.

The institute has initiated in developing an incubation center to encourage self employment skills in tune with the national policy of "Make in India". To support this initiative

training and High-speed Internet access, networking with professional resources, which include mentors and advisors are being established. Students are motivated by giving incentives to best start up ideas and seed fund for initiating the same and expert help is given to realize in terms of nurturing it into reality, like developing proto type working models. Entrepreneur development program in collaboration with AP small-scale development corporation was conducted in the campus towards the same initiative. Guest lectures by entrepreneurs from various parts of the world have rendered their address to motivate the students towards startup culture.

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years**Response:** 91**3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
30	20	19	12	10

File Description**Document**

List of workshops/seminars during the last 5 years

[View Document](#)**3.3 Research Publications and Awards****3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research****Response:** No**File Description****Document**

Institutional data in prescribed format

[View Document](#)**3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards****Response:** Yes**File Description****Document**

List of Awardees and Award details

[View Document](#)

e- copies of the letters of awards

[View Document](#)**3.3.3 Number of Ph.D.s awarded per teacher during the last five years****Response:** 1.4**3.3.3.1 How many Ph.Ds awarded within last five years****Response:** 7

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 1.82

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
55	54	43	29	15

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.23

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
6	9	4	4	2

File Description	Document
List books and chapters in edited volumes / books published	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The college administration has distinguished the social duty as one of the real needs to follow up on, which influences the students to learn great esteems and obligations required for good citizenship, service orientation and holistic development. This state of mind has been reflected in influencing the group to benefit as a required program at undergraduate level to instill the feeling of social obligation and to provide a platform to self-learning and group learning mechanisms in future life.

- The faculty and students are involved in community work. Our students were involved in support for distribution of AADHAR cards, in association with Government agencies.
- Computers to various organizations have been regularly donated by the college to spread computer literacy among the underprivileged ones. Over 50 computers have been donated to various schools, colleges and organizations.
- The college has been generously contributing for the benefit of people suffering from natural calamities as well as for other noble causes. During the recent devastating Hudhud cyclone, the college provided substantial relief material in the form of food, clothes and blankets to the needy.
- A mentorship programme is conducted for difficult subjects in order to promote student linkages and involvement. Under this programme, top notch students of the institute conducted lectures for slow learning students. This builds up a sentiment of selfless service and leadership skills within the student community at large.
- All departments within the institution have formed student societies both in technical and cultural domains which regularly conduct events across various institutions of East Godavari District and AP. Competitions based on certain extension activities are conducted and the winners are suitably awarded with certificates and cash. This provides a platform for students to compete with their counterparts.
- The College has NSS Unit sanctioned by the JNT University Kakinada, Kakinada. Funds are released by the University periodically. College maintains separate account for NSS. One of the faculty members is designated as Programme Officer. Yearly accounts are submitted to the University with Utilization certificate.
- The NSS Unit along with social organizations conducts health check-up camps for surrounding villagers.
- The NSS Unit organizes the community development programs in villages. Such camps help the students to understand the rural life, problems of villagers and suggest probable engineering solutions.
- Blood donation camps are conducted by the NSS Unit of the college every year in association with Lions club.
- The activities such as Swatch Bharath, Clean and Green, Plantation, Cashless Transactions., etc programs are conducted in surrounding villages through NSS.
- A school in the nearby village is adopted by The NSS Unit and study materials are distributed every year to school children.
- The AP State Government nominated two faculty members and two students of our college as volunteers for their prestigious “SWATCH SARVEKSHAN-2018” programme.

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 1

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	1	0

File Description**Document**

Number of awards for extension activities in last 5 years

[View Document](#)

e-copy of the award letters

[View Document](#)

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 67

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
11	15	7	17	17

File Description**Document**

Number of extension and outreach programs conducted with industry,community etc for the last five years

[View Document](#)

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 0.44

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
8	3	3	5	6

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 39

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	7	10	9	6

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 14

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2016-17	2015-16	2014-15	2013-14	2012-13
0	7	0	0	7

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years	View Document

NVAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The Institution has a clear policy for establishing and enhancing infrastructure facilities for teaching learning process.

The organization has over the 20 years of establishment ensured that facilities are provided as per AICTE norms and the institution trusts that the facilities should be routinely re designed according to the prerequisites of the departments, to give quality education in tune with the present changing trends in engineering education.

The campus is housed in a sprawling area of 15 Acres of land surrounded by green and serene hills with state of the art infrastructure matching the global standards. With a built-up area of two lakh, sixty thousand Sq.ft, incorporating various departments, playgrounds and sports complex and all the amenities, the campus offers a fabulous atmosphere - conducive for idealistic learning ambience.

The Board of Governors of the Institution meet once in a year to approve and sanction the budget proposals put forward by the departments through the head of the institution for improvement of infrastructure and other facilities.

The strategy of the institution for improvement of infrastructure facilities for compelling instructing and learning are as per the following:

Each Head of the Department prepares the budget requirements for the financial year and the same is presented and discussed in the purchase committee headed by the principal. The requirements and resolutions are presented during the Governing body meeting of the college, which in-turn approves and sanctions the same. A special contingency fund is also allocated to meet any other emerging needs. Procurement is through call of quotations by HOD's from 3-5 vendor and the orders are placed by the Head of the Institution.

Details of the facilities accessible for Curricular and Co-curricular Activities:

Academic facilities

- 44 Nos. class rooms/ Tutorial rooms
- 49 Nos. labs, workshop
- English Language lab
- 3 Nos. drawing halls,
- Library is provided with book volumes more than 35,000; titles more than 5500 and journals 150. We have an access to online reference material, DELNET and online journals.
- Departmental libraries: 06
- Conferencerooms-2Nos.
- Digital library-20 systems
- ICT facilities
- Internet with 54MbPS and Wi-Fi connectivity
- Over 450 Computers connected in LAN
- Placement cell
- Reprographic facilities
- 128kVA generator
- 11 KVA dedicate power line
- Medical centre
- Canteen
- Transport facility
- In-house hostel for boys and girls hostel outside the campus with shared accommodation.
- ATM
- Book stall

(b) Co-curricular activities

- One acoustically designed 300 seater AC auditorium provided with public address system.
- Six seminar halls
- One Boardroom

(c) Extracurricular activities

- Indoor sports complex- Shuttle/Badminton Court, Table tennis, Chess, Carroms
- Open air auditorium
- Volley Ball court
- Cricket Ground
- Basketball court
- Kho-Kho

All the above facilities are housed in four Blocks and three workshop sheds.

1.P.V.Narasimha Rao Administrative Block

This block houses all Executive offices, Examination cell, IQAC cell, Board room, Seminar halls, Applied science and Humanities department, Physics virtual lab, First year classrooms, Engineering Drawing hall-3 and Boyshostel.

1.Block-1

This block houses MOOCS/Swayam class room, Geology Lab, Environment Engg and chemistry lab, Electrical Machines Lab, Physics lab, Power systems lab, Concrete Technology Lab, Transport Lab, First Aid & Sick room and Boys waiting hall.

1. Sir M. Visveswaraya Block-2

This block houses the Mechanical, Civil, Electrical and Management Studies with Surveying and Advanced structures Lab, Geo Technical Engineering lab, Control systems and Power electronics lab, Electrical Networks lab, Electrical Measurements Lab, Metallurgy Lab, Heat Transfer Lab, Advanced CAD Lab, 15 classrooms and 1 Seminar hall.

1. Sir.C.V.Raman Block-3

This block houses the Departments of Electronics and communications Engineering and computer science Engineering with the Microprocessor and Micro Controllers Lab, Micro wave and Optical Lab, Analog & digital communications Lab, Electronic devices & circuit lab, Pulse digital and circuits lab, Embedded systems lab, LICA Lab, ECA Lab, DSD and DICA Lab, VLSI Lab, DSP Lab, Computer Labs, English Language Lab, IT work shop, R & D lab, Internet centre, Placement cell, Industry Institute Interaction cell, Incubation centre, Girls waiting hall, 14 class rooms, 1 Seminar hall and Drawing Hall-1 and Drawing hall-2.

1. Workshop Shed 1

This houses Fluid Mechanics & Hydraulic Machinery Lab, Machine tools lab and Instrumentation lab.

1. Workshop Shed-2

Thermal Engineering lab, Strength of materials Lab, Theory of machines lab

1. Workshop Shed-3

Production technology lab and Engineering workshop

Specialized facilities for teaching, learning and research:

- The college has exclusive English communication skills lab with 30 systems of Pentium i3 configuration and Globerena English language software to enhance the soft skills and communication skills of the students.
- Smart classes are setup in each department to expose the students to computer based learning and virtual classroom learning.

- Central library of the institution has been selected as the cluster center by JNTU-K for accessing ASME and ASCE journals, DELNET (All branches of engineering), member of NDA and e-shodhsindhu.
- Apart from the central library, every department has a separate department library with a good collection of books.
- The Digital library hosts 20 nos i3 Pentium systems with internet facility with a vast array of e-books and journals
- to aid students in preparation for assignments, projects, presentation and self-learning
- For self learning, reference books for every subjects are accessible in the central library.
- Co-operative Learning facility is given in Central Library where students learn in blended capacity heterogeneous gatherings on scholarly assignments, discussion rooms are furnished with network facility for this reason.
- To promote the research activities, the college has established research centre.

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

Sports, outdoor and indoor games:

- The college actively promotes every individual to enhance their self-knowledge, expression, personal development, courage and social interaction by participation in sports, indoor and outdoor games, yoga, NSS and cultural activities
- Sports & Games meets are organized regularly in the college to develop team spirit, leadership

qualities and organizing abilities among the students. Students of all departments participate and prove their talents.

- A qualified Physical Director is on rolls to look after the day to day games and sports activities of the college and he has been awarded the BEST PD by JNTU-K. He has been nominated as a coach, team manager, selector for various sports events in the state and nationally representing the university.

- The institute has a playground of 4800 sq.m. Outdoor games such as Ball-badminton, volley ball, cricket, tennikoit, kho-kho, discus throw, shot put etc. are conducted in the campus.

- The campus also has a basketball court.

- A separate indoor sports complex has been established for playing shuttle, table-tennis, caroms and chess, is being used by the students regularly.
- Due care is also taken for their physical fitness.
- The students of the institution have represented at state, national and International level and have won many prizes. The students are also encouraged by the institute by providing sponsorships for various events.
- Yoga classes for the faculty and students by the yoga experts are organized by the college periodically. National yoga day is strictly observed every year in the campus with active participation from staff and students.

Cultural activities:

- The institute has a cultural forum – KALAVEDIKA in which students are encouraged to participate in cultural activities organized within and outside the campus.
- As part of this, the college encourages and sponsors students to participate in literary and cultural fests.

- Events are conducted by the college aimed at overall development of the students.

- A one day event YAVANIKA is conducted especially for the first years to alleviate their fears and come forward in participation in all the events.
- A two day festival SAMYUKTA is organized by the institution every year as a State Level Inter Engineering Collegiate Competitions in Technical Paper Presentations, Technical Exhibition, Literary and Cultural Activities, Sports and Games Activities.
- To facilitate all these activities the college has an open air auditorium with a seating capacity of 2000 and an A/C auditorium of 300 seater capacity.

•

- The College has a NSS Unit, affiliated to J.N.T.U. Kakinada.
- The objective behind the establishment of the NSS unit was to cultivate the attitude of social service in the minds of students and to make them into responsible citizens.
- A Village Dibbameedivanipalem is adopted by our college NSS unit and has conducted various welfare drives for the members of the village.

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 0

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation

during the last five years.

Response: 12.25

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0	30	36	225	100

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The college has an excellent conventional library with over 35,000 volumes and 5,500 titles as well as a sophisticated digital library with access to study and reference materials, e-books and journals. with over 400Sq.m and seating capacity of 250 members it provides an ambient atmosphere for conducive learning. the library facilities have been fully automated for issues and receipts with all books barcoded.

ILMS soft ware: E-CAP

Nature of automation: Fully

Version: 10

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

- 1.Sutras from management gurus: sage advice for learn lakshmi publications
- 2.introduction to nano technology
- 3.let us here them speak sage jayasri encyclopaedia of science & technology

4. the heart of the leader:Jaicoblanchard.

Sutras from management gurus: sage advice for learn lakshmi publications

2.introduction to nano technology

3.let us here them speak sage jayasri encyclopaedia of science & technology

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3.let us here them speak sage jayasri encyclopaedia of science & technology

4. the heart of the leader:Jaicoblanchard.

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 3.53

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
3.01	1.9	3.02	4.63	5.09

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 27.03

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 280

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

- The institution has definite plans and strategies for optimal use and up-grading of IT facilities

Number of computers with Configuration

	CORE i3	CORE i5	CORE i7	CORE 2 DUO	DUAL CORE	P4
No. of SYSTEMS	140	1	3	100	30	183

PROCESSOR CONFIGURATION	CORE I3 2nd Generation 3.1 GHz	CORE i5	CORE i7-3.101.86/2.93 GHZ	P4 CORE2DUO 1.8 GHZ	P4 DUAL CORE 1.8 GHZ	P4 3.0 GHZ
RAM	4 GB	4 GB	8 GB RAM	2GB/1 DDR-II	GB1 GB	1 GB
HDD	250/500 GB-1 TB HDD	1 TB	500 GB HDD	80/160 HDD	GB80/160 HDD	GB80/160 HDD
DISPLAY DEVICE	17.5" TFT	17.5" TFT	19" TFT	15" TFT	15" TFT	15" TFT
	KEY BOARD	KEY BOARD	KEY BOARD	KEY BOARD	KEY BOARD	KEY BOARD
	MOUSE	MOUSE	MOUSE	MOUSE	MOUSE	MOUSE

- Computer-student ratio: 1:2
- Dedicated computing facility: 40 systems
- LAN facility Available: All departments are in LAN connection with internet facility
- Wifi facility : Available

- Licensed software / Open source software's

COMPUTER DEPARTMENT	SCIENCE MICROSOFT CAMPUS AGREEMENT WINDOWS OPERATING SYSTEM, MS OFFICE 2016 TURBO C UNIX	FEDORA PYTHON 3.2 PYCHARM IDE JAVA TURBO C TURBOC++ LINUX XAMPP PERL RUBY ANDROID STUDIO J2ME UBUNTOO
MECHANICAL	ANSYS-17.0	AUTOCAD 2015

DEPARTMENT	ANSYS AIM ANSYS APDL ANSYS WORK BENCH		
CIVIL DEPARTMENT	BENTLEY ACADEMIC SELECT BUNDLE -STAAD PRO V8i 3D CAD DESIGN AND MODELLING GEOS 3D IMAGING AND MAPPING BULDING INFORMATION MODELLING	AUTOCAD 2015	
ELECTRICAL ELECTRONICS	AND MATLAB		
ELECTRONICS COMMUNICATION	AND XILINX VIVADO MULTISIM 14 MENTOR GRAPHICS -1(HEP-1) MATLAB		
ENGLISH COMMUNICATIONS	GLOBERENA DIGITAL LAB		

- Updation of Hardware/software

o	•	NATURE OF UPDATION	DATE OF UPDATION
1.	LANCABLE CAT6 -1	Newly procured	1.
1.	24 PORT SWITCHES-3	Newly procured	13-09-2012
1.	KEY BOARDS-50	Newly procured	13-09-2012
1.	1.	Newly procured	13-09-2012
1.	RJ45 CONNECTORS-100	Newly procured	13-09-2012
1.	QUANTOUM BATTTERY 5NOS	Newly procured	4-10-12
1.	CANON PRINTERS -3NOS	Newly procured	6-10-12
1.	HDD -5NOS	Up gradation	15-10-12
1.	RAM 1GB -5NOS	Up gradation	15-10-12
1.	CMOS BATTERY -5NOS	Up gradation	15-10-12
1.	P4 DESKTOPS 50NO'S	Newly procured	2-11-12
1.	HDD 20NO'S	Up gradation	2-11-12
1.	INFORMATION TECHNOLOGY SOFTWARE SERVICES	Microsoft campus agreement	26-5-14
1.	D-LINK CAT 5E CABLE-1NOS	Newly procured	2-7-14
1.	CMOS BATTERY -60NOS	Newly procured	2-7-14
1.	RJ45 NOS -100NOS	Newly procured	2-7-14
1.	CAT 5E LANCABLE	Newly procured	8-7-14
1.	RJ45 CONNECTORS - 100	Newly procured	8-7-14
1.	CMOS BATTERY -60	Newly procured	8-7-14
1.	MOUSE -30NOS	Newly procured	8-7-14
1.	LENOVO I5 LAPTOP	Newly procured	28-12-15
1.	I-BALL CLARO TV	Newly procured	28-12-15
1.	SURVULENS CAMERA	Newly procured	28-12-15
1.	12V 1AMP ADAPTER	Newly procured	28-12-15
1.	LENOVO I5 Desktop 1no	Newly procured	5-1-16
1.	MATLAB SOFTWARE	License renewal	30-3-16
1.	D-LINK CAT 5E CABLE -4NOS	Newly procured	24-6-16
1.	NAIL CLIPS, TAGS, USB LAN CARDS, ETC...	Newly procured	24-6-16
1.	Desktops 10nos	Newly procured	14-9-16
1.	Hp desktops 60 nos	Newly procured	14-2-14
1.	Lenovo desktops 40nos	Newly procured	14-2-17
1.	4gb rams	Up gradation	20-6-17
1.	Dell desktops 100 nos	Newly procured	30-6-17
1.	Web pros college automation software	Newly procured	20-9-17
1.	Multisim software	License renewal	26-10-17
1.	Mentor graphics	Licensed software	5-10-17
1.	Bently staadpro 8vi	Licensed software	10-11-17
1.	Ups service charges	Up gradation	13-11-17
1.	Xilinx software	License renewal	18-11-17

1.	Printers	Newly procured	12-12-17
1.	Ansys17.0	Licensed software	10-1-18
1.	Globarena digital lab	License renewal	17-1-18

- The institution regularly upgrades the hardware facility as and when need arises.
- Many computers have been changed from Pentium IV to Intel dual Core and I3 to match the present requirements.
- New systems have been procured to replace systems that have become obsolete.
- The Computer monitors have been changed to TFT LCD displays.
- Wi-Fi facility has been introduced in the campus to facilitate e-learning.
- Class rooms are being upgraded into smart classrooms for interactive learning.
- Annual Maintenance work is carried out at the beginning of the academic year for the computers and UPS.
- Software licenses are renewed for uninterrupted teaching –learning process.
- All staff rooms and computer based laboratories are provided with internet facility of 54 Mbps through LAN.
- Continuous power supply is made available in the campus so that the students and staff can access the internet without any disruption.
- Students can access study material, lab manuals and question banks offline via a download link available in the college website (<http://www.vitamenggcollege.com/>)

4.3.2 Student - Computer ratio

Response: 2

File Description	Document
Student - Computer ratio	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 11.7

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
27.95	27.43	30.17	164.76	87.75

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

There are established system and procedures for maintaining and utilizing physical, academic and support facilities – laboratory, library, sports complex, computers, classrooms etc. The institution has the structured system for maintaining the support systems of the institute to allow uninterrupted access to facilities for teaching and learning. The institution has the policy of replacing or upgrading the existing equipment to meet the changes in the syllabus made by the university from time to time.

1. Maintenance of infrastructure:

- The maintenance staff of the institute undertake routine checks to ensure proper upkeep and maintenance of the buildings. Carrying out minor repairs of furniture, electrical and sanitary fittings. Ensuring the general and fire safety procedures and its equipment maintenance in the campus.
- Separate ground staff involve in maintenance of the gardens, lawns and surroundings. Maintenance of the roads, water tanks and other services in the compound.
- Sweepers and a supervisor are also regularly allotted to maintain hygienic environment in the college with respect to cleaning of floors, corridors, classrooms, toilets etc.

b) Electrical maintenance

- While maintenance of Diesel Generators, UPS systems and its batteries are routinely done by in-house personnel they are regularly maintained under AMC with local vendors.
- Maintenance of Building and equipment earthing – measurement of earth resistance at regular intervals, ensuring the proper earth connection for various equipments in the labs and classrooms.

d) Library committee:

The committee convene twice each year and identify the requirement of books and journals. The requirements are forwarded to governing council through the principal for sanction and approval.

1. sports facilities

The maintenance and ground staff support the maintenance of the sports facilities under guidance of the physical director. Up gradation of facilities are done after approvals from governing body council.

Calibration and other Precision measures for the equipment/ instruments Calibration of the equipment/instruments is taken up by the respective departments every semester/year as and when required based on or according to the time frequency suggested by the supplier. Any deviation in this regard will be noted and necessary steps are initiated by calling for the technicians from the supplier Steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)

The IQAC members regularly conduct audits and report any deficiencies found.

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 69.95

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
730	780	734	865	978

File Description

Document

Upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 11.48

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
81	123	176	154	137

File Description

Document

Number of students benefited by scholarships and freeships besides government schemes in last 5 years

[View Document](#)

Any additional information

[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 87.72

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
747	886	978	1275	1347

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during

the last five years**Response:** 77.75**5.1.5.1 Number of students attending VET year-wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
641	889	819	1087	1197

File Description**Document**

Details of the students benefitted by VET

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 33.1**5.2.1.1 Number of outgoing students placed year-wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
82	122	176	155	137

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 15.85

5.2.2.1 Number of outgoing students progressing to higher education

Response: 42

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 33.04

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	4	6	16	15

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
12	22	16	24	35

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

Response: 4

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	1	1	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

To inculcate leadership skills, organizing skills and to also play an active part in the day to day academic and co-curricular activities of the institution, students are appointed in various academic and administrative committees.

Academic Bodies:

1. Class Monitoring Committee

Activities: Weekly reports on the syllabus coverage both in theory and laboratory are submitted to the HOD, monitor discipline in the class and represent any issues related to students. One representative from each class is nominated at the beginning of each year.

1. Library Committee

Activities: To give feedback on the library services periodically and represent their needs to the Library committee. One representative from each department is nominated at the beginning of each year.

Administrative Bodies:

1) Anti ragging Committee

Activities: The student representatives in this committee take prudent steps in prevention of incidents and help the anti-ragging committee maintain the campus ragging free. Two representatives from senior students, one first year student and one from the hostel are nominated at the beginning of each year.

2) Women Grievances Redressal Committee

Activities: To enquire and address the grievances of girl students and lady staff individuals. Two students, one from senior group and one from first year are nominated at the beginning of each year.

1. Hostel Committee

Activities: To ensure that the hostel facilities and the quality of food provided is clean and healthy. Five representatives are nominated at the beginning of each year.

1. Canteen Committee

Activities: To give regular feedback on the cleanliness, quality and the prices of the food items provided in the canteen. One representative from each department is nominated at the beginning of each year.

1. Student Grievance Committee

Activities: To represent the grievances of the students periodically to the Student Grievance Committee on the academic facilities, transportation facility, sports and games facility and any other issues related to students. One representative from each department is nominated at the beginning of each year.

1. Student chapters

Activities: To register as members and participate in various professional activities conducted by the student chapter like workshops, conferences for paper presentations, specialized tests and so on.

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 12.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
23	14	13	5	9

File Description**Document**

Number of sports and cultural activities / competitions organised per year

[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**Response:**

- The members of the old students' association meet each year. The association members convene and discuss on matters related to alumni and for the improvement of the college.
- However, because of the great affinity shared by the college's teaching and non-teaching staff to students, the graduated class are in consistent touch with the college through different social networking sites.
- Alumni gatherings are directed departmentally in the Institute amid the Annual Alumni meet; the database of the alumni is refreshed.
- Alumni are welcomed for
 - The conduction of different workshops, annual gathering and project exhibition and paper presentation.
 - Refreshing the present patterns in the activity markets.
 - Spurring the understudies to wind up business people.
 - Sharing their encounters.
 - Giving direction to the present understudies in the advanced education and business openings. .
- The old students association energizes their youngsters by extending monetary awards to meritorious students.

5.4.2 Alumni contribution during the last five years(INR in Lakhs)**? 5 Lakhs**

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: ? 5 Lakhs

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

VISION

To develop Engineers, Scientists, Technocrats and Managers through quality instruction in an environment of Research & Development and distinct work culture, who would inculcate lifelong learning process, leadership qualities and be competent to handle any global challenge.

MISSION

“To provide an environment with state-of-art infrastructure and equipment, where the faculty impart knowledge through student-centric learning methodologies so as to meet the present national and global changing needs. To orient the students towards research through R & D cell and sponsored projects. Inculcate soft skills including leadership, team- building and communication skills, and inspire them to work and dedicate themselves for the advancement of humanity.”

Right from the inception of the college in 1998, the institution has been striving to provide an ecosystem for education that transforms students through rigorous coursework, training that prepares students for interdisciplinary engineering research and advanced problem solving. Providing an understanding of the needs of society and industry. To ensure excellent standards that would secure them possible leadership in tomorrow's challenging world.

The VITAM under the aegis of viswanadha educational society is headed by Sri.V.Narasimham as the chairman, Sri V.Nageswarara rao as vice chairman and Sri.V.Dhanajaya Rao as Secretary and correspondent, from industrial background with an initiative to facilitate quality education and make students graduate with employable skills. A clear policy has been defined for planning and effective implementation of the stated vision and mission of the institution. The governing body of the institute comprises of the members of the society, members from industry, university nominated members and principal as the member secretary. The governing body is the highest decision making authority and authorises the principal in implementation of the policies set by the council. The council meets annually to strategize on the perspective plans after due diligence on the performance and feedbacks of the preceding year presented in the annual report of the principal.

The Principal as the chairman of the academic council along with Heads of the departments as its members design the annual academic plan for implementation of the strategies and effective deployment through the heads of the departments and faculty members. The outcomes are evaluated by taking feedback on the faculty and institutional performance and necessary corrective actions are taken when required outcomes

are not met. Policy and planning are carried out through department wise committees formulating quality policy and integrating the same in the strategic plan.

The heads of the department and the faculty members design the department plan, course plans and outcomes in tune with the policies of the institution to render the teaching-learning process effectively. Each department has a well defined set up having fullest freedom to innovate and plan its perspectives. All the members follow a line of hierarchy to ensure clear flow of information and accountability.

For effective administration of the institution the principal is supported by the faculty members and students through various committees constituted in the college. These committees ensure each dimension of the academic, co-curricular and extracurricular aspects function effectively and any issues are resolved immediately.

6.1.2 The institution practices decentralization and participative management

Response:

- The College follows the policy of decentralization. The Governing Body delegates all the academic and non-academic decisions based on policy to the College Academic Committee headed by the Principal.
- The College Academic Committee formulates common working procedures and entrusts the implementation through departments. The department coordinator manages the day to day activities of the department and keeps a track of co-curricular and extra-curricular activities in the College.
- Other units of the college like sports, arts, library etc. have operational autonomy under the guidance of the various committees and feedback from students is involved in the decision-taking process.

Participatory management may result in a more effective management framework.

Decentralization Institute offers mechanism for delegating authority and providing operational authority to all the various functionaries to work towards decentralized system.

The Governing Body delegates all the academic and operational decisions based on policy to the college Academic Committee headed by the Principal in order to fulfil the vision and mission of the institute. College Academic Committee formulates common working procedures and entrusts the implementation with the faculty members.

Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours /seminars/workshops/conferences/FDPs etc. For effective implementation and development

of the institute necessary committees are formed. Other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells.

The institute promotes a culture of participative management by involving the staff and students in various activities. All decisions of the institution are governed taking into account facts, information and objectives. Faculties and students express any suggestions to improve any aspect of the Institute.

The principal, Vice-Principal, HODs and staff members involve in all the policies and procedures; framing guidelines; rules & regulations pertaining to admission, discipline, grievance, counselling, training & development, placement etc., and effectively implement the same.

Principal, Vice-Principal, HODs are involved in deciding academic activities and examinations to be conducted by the college.

At functional level the faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meeting. Professors and faculty members pursuing higher degrees write joint research papers and share their knowledge.

The principal of the institution is the member secretary of the Governing Body. The Governing Body gives suggestions regarding introduction of new programs and welfare activities.

Office staff are involved in executing day to day support services for both students and faculties.

File Description	Document
Any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The principal in coordination with the academic committee of the college strategize plans for effective delivery of teaching learning process. The strategy plan contains the files for Heads of the department and faculty to input all the objectives, outcomes, analysis and results. They help asses at every stage, monitor progress and help analyzing the strengths, weakness, and opportunities for improvement of performance.

These documents are formulated by the IQAC with the help of inputs from all the stake holders. Its has effectively helped in setting targets to reach the goals of the set vision and mission. At the end of each semester the documents are compiled for feedback from the IQAC committee for due diligence and accordingly formulate corrective actions.

The planning and execution is monitored by the principal regularly. Adequate annual budget is part of the developmental plan. The aspects that are included in the perspective plan are drawn from the recommendations of the following committees viz., Academic Committee, Student Committee,

Entrepreneur Development Cell, Grievance Redressal Cell, Anti Ragging Committee, Library Committee, Hostel Committee, Transport Committee, etc.,

The perspective plan of the institution is:

- To obtain Accreditation from NAAC, NBA.
- Permanent Affiliation from the University.
- Autonomous status from the University.
- Autonomous status from the UGC.
- Seeking recognition by UGC under 2(f) & 12(b) of the UGC act.
- MOUs with Industries.
- To offer Consultancy Services in various fields of specializations.
- Establishment of R&D Centre in Interdisciplinary areas.
- Establishment of Incubation centre
- Obtaining the status of top ranked engineering institution in the state of Andhra Pradesh.

Successful Activities:

- The Government of Andhra Pradesh awarded “A”.
- Improvement in results.
- More than 20 MOUs are established with different Industries.
- The number of students placed have increased.
- E-resources are established in central library.

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

Viswanadha Educational Society (VES) acts as the governing body. It makes educational policies. The principal oversees various functionaries such as Academic Departments, Examination section, Placement Division, College Admissions, NSS, NCC, Alumni, Sports, R&D. The AO in consultation with the principal runs such functionaries as accounts, Estate Maintenance, Transport, the Hostel, the Canteen, Establishment, the Stores, Purchases and Security . Decentralization and participative decision making processes are implemented

File Description	Document
Any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

VITAM as a part of VES has well-formed committees. The college constituted all statutory committees as per the guidelines of "AICTE" to support the Academics and Administration, which are used for the improvement of the quality of the organization. The following are the committees formed in the college are Committee For SC/ST, Minority Cell, Grievance Redressal Cell(Academics), Anti Ragging, Disciplinary, Examination & Malpractice, Transport, Women Grievance, Alumni, Academic, Hostel, Library, Sports & Games, Internal Quality Assurance Cell, Finance & Accounts, Placement & Training, Career Guidance Cell, Cultural, Admissions, NSS, HRDC, NAAC, IIC and EDC.

Activities conducted by various committees are documented from time to time.

Our organization evolved with affection and welfare of the minority, backward, and SC/ST students under the support of our committees.

Student grievances and other disciplinary issues were structurally monitored and resolved on the basis of severity. The college makes sure to find remedial measures for resolving of the issue as early as possible.

Our organization strength grows incredibly with a strong Alumni connect.

Academic calendar prescribed by JNTUK is strictly followed with the support of department heads and respective committees.

File Description	Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

- For teachers who have served for more than 2 years, paid maternity leave subject to a maximum of 3 months is in force. For male counterpart above period is one week.
- For teachers who have served for less than 2 years, unpaid maternity leave subject to a maximum of 3 months is in force. For male counterpart above period is one week.
- Group Health insurance scheme is in force for staff and students.
- Provident fund loans are provided.
- During bus strike each non-teaching staff were given travelling assistance.
- Drivers are given bus passes
- Subsidized transport for teaching and non-teaching Staff.
- Monetary benefits for those with higher qualifications such as PhD as well as opportunities for those who wish to improve their qualifications.
- Study Leaves

Pursuing Ph. D: 1 day or 2 afternoons of absence per week and OD for Pre PhD/Paper Presentation/ FDPs related to PhD work is considered.

- On duty leave is given, to the teaching faculty to attend seminars, conferences, workshops, training programs, and faculty development programs etc.
- Faculty are sponsored for Paper presentation in conference.
- Staff Welfare Fund is initiated to help staff members in meeting any emergency requirements in the form of cash or kind. The seed money for this is generated through voluntary donations from staff and management.
- Monetary benefits to faculty for publishing papers in National/International.

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 14.03

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
32	8	8	18	11

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 22.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
34	23	28	16	13

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 27

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
29	18	54	16	24

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	View Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The central aim of appraisal institution is to improve the quality of education for the pupils through the development of staff, and to bring about specific benefits for the individual and for the institution. The principal at Viswanadha Institute of Technology And Management recognise that, while there is no nationally agreed system of appraisal for teaching & non-teaching staff, appraisal is an entitlement and the institution wishes to recognise the contribution each member of the teaching.

The college performance appraisal system consists of the following components:

Self-appraisal: The faculty submits self-appraisal report at the end of every academic year.

Student feedback on teaching: Every semester the students give feedback about their course teachers.

Staff Appraisal by the Head of the Department: At the end of every academic year, report of the contributions of the staff members in college activities and their performance is reported by the Head of the Department.

The outcome of the review of the Performance Appraisal Reports:

The self-appraisal report and the student feedback are analyzed by the Head of Department. Based on the student feedback, the Head of Department gives suggestions for improvement in teaching, if required. The self-appraisal helps to improve an individual's performance and his/her contribution to the institutional activities.

Staff Appraisal by the Head of the Department is reviewed by the Vice-Principal, Principal & Director. Staff members' performance is discussed and opportunities are created to improve the same.

Some of the major decisions on the basis of Performance Appraisal Reports are as follows:

It is decided to provide incentives for quality publications and funded research in order to motivate faculty members for quality publications and research projects.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The college has very effective procedure for the management of financial resources. A fully computerized accounts section exists in the college and double entry system is followed to maintain the accounts of the college.

All our financial transactions are transparent and each and every transaction is supported by the vouchers. All the collections are deposited in the bank and major expenditure, recurring and non –recurring are done through cheques. Bank accounts are operated only by duly authorized persons. Two tier system of audit- the internal and external audit – is done regularly to have an effective check on the accounts maintenance. The internal audit committee consists of Principal, Management, HOD's and Administrative Officer. The external audit done by the Chartered accountant before the closure of financial year.

The accounts of the college are subject to audit by the externally qualified Chartered Accountant appointed by the Governing Body before the end of each financial year. The last Audit was done during the year 2017 and there were no audit objections. The audit report by the external CA is placed before the governing body for appraisal.

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 2.25

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0.76	0.24	0.25	0.5	0.5

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Annual statements of accounts	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Mobilization of funds

The source of income for the institution is by way of tuition fees. An annual budget is prepared by the academic committee and placed before the governing body at the beginning of each academic year. The revenue and capital budget furnished by the departments are reviewed and approved by the management and governing Body. Secretary and principal on a regular basis review budget utilization. Whenever any deviation occurs in the budget, due justification is sought from the respective head so that subsequently the same will be approved. Fund optimization is done by the maintaining a percentage of funds as fixed deposits to avoid over utilization of funds and earn income by way of interest. To control all the above operations the institution maintains good stewardship and has not so far encountered any deficit of resources. The entire accounts are audited by a registered chartered accountant. The college has received funds from agencies like NSTL for projects and DST for workshops which have been effectively implemented and utilization certificates submitted to respective organizations. Additionally Alumni association also actively contributes financially for the development of students and the same is utilized only for the benefit of students.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the

quality assurance strategies and processes**Response:**

- The institute has established Internal Quality Assurance Cell on 4th August, 2016. The composition of the committee is two/ three members from the governing body, principal as the chairperson, vice principal as the convenor, all the Heads of the Department, Administrative officer, Physical director, librarian and one industrialist.
- The objective of the IQAC is fixing quality parameters for various academics and administrative activities. Progressive checkups of class work and related academic activities.
- Internal quality audits are conducted periodically to verify the effectiveness of quality parameters.
- Documentation of various programs/ academic activities leads to quality improvement and reviewing their effectiveness.
- The management approved all the decisions of the IQAC and most of them were actually implemented.
- The following suggestions of the external members of IQAC have been implemented, remedial classes for slow learners are implemented after the college hours, Project Oriented Courses for Advanced learners, Bridge Courses are conducted before the semester starts and curricular and co-curricular activities, facilitating the creation of a learner centric environment conducive to quality education to adopt the required knowledge and technology for participatory teaching and learning process by making use of multimedia lectures, NPTEL video lectures, MOOCS and DELNET etc.,
- Development and maintenance of institutional database for the purpose of maintaining/ enhancing the institutional quality development.
- Facilitating faculty and supporting staff to update the knowledge and skills to match the industrial and technological development.
- Dissemination of information on various quality parameters of higher education.
- Organisation of inter and intra institutional seminars, workshops on latest trends in technology by renowned persons from premier institutions.

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms**Response:**

The following methods are considered for formulating the policies on Teaching -Learning Process The intra semester and end semester feedbacks on all the subjects are taken from the students for every semester. The feedback is analyzed and evaluated on the scale of 5 and every teacher is provided with a copy of feedback for making necessary corrections. Further, teachers are counselled by the head of the department, Principal and Director if required. The academic coordinator also receives the feedback by interacting with a selected group of students from each class. Monitoring is also done through class monitoring committees (CMCs) to assess the uniformity in syllabus coverage, and also the quality of teaching. Annual review meetings are conducted to evaluate the knowledge and ability of the faculty in teaching, the quality of course material and assignments prepared by the faculty are assessed internally and suitable suggestions for enriching the course materials.

Evaluation procedures and feedback

The evaluation of faculty by the students through feedback forms is done twice in a semester. This feedback is analyzed and appropriate suggestions are given to the faculty by the HOD concerned and the Principal to see that they rectify the short comings. The feedback from mainly focuses on the various teaching skills of the faculty members, like presentation, communication, knowledge, content covered, innovative practices and laboratory work. The head of the institution interacts with few students of each class and takes the feedback on the teachers about the effectiveness of their classes and learning material provided. Performance and self-appraisals are taken from the faculty at the end of every academic year and their performance is evaluated. Based on the evaluation report, the faculty is counselled to improve performance. Based on the faculty appraisal incentive increments are given for encouragement their performance.

Syllabus:

JNTUK prescribed syllabus will be followed. Extra content shall be given based on the skills in demand for employment.

Academic Calendar:

Number of instructional days, contact hours per week to be followed as directed by JNTUK. Additional teaching hours are utilised to conduct remedial classes for slow learners.

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 0

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description

Document

Number of quality initiatives by IQAC per year for promoting quality culture

[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for

improvements**2. Academic Administrative Audit (AAA) and initiation of follow up action****3. Participation in NIRF****4. ISO Certification****5. NBA or any other quality audit****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document

6.5.5 Incremental improvements made during the preceding five years (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles)**Response:**

The institution strives at all times to improve all the metrics in the college. In the preceding years the following measures were implemented to improve quality of education imparted.

1. Introduction of online feedback mechanism, as the previous method was paper based.
2. Introduction of ERP for e-governance in all areas for ease and effective operation and monitoring.
3. Incentives for students by way of special awards for top performers.
4. Renovation of all laboratories and academic facilities.
5. Up gradation and procurement of computers, lab equipment.
6. Revival of alumni association
7. Green drive after HUD-HUD cyclone for campus beautification.
8. Invited talks by distinguished speakers to motivate the students.
9. Active Industry-institute interaction for internships and training students and gain first hand experience
10. Introduction of new teaching pedagogies for efficient teaching-learning process.
11. MOOCs and SWAYAM classes for courses as per designed schedule by expert faculty to make concepts clear and interact with them.
12. Introduction of entrepreneur development programs and talks to allow self-employment mindsets in

the students.

13. Recent introduction of startup cell to help students generate new ideas, create prototypes and bring industry connect and help as an incubation center for new ventures by students.

14. Introduction of start-up & Incubations cell.

Develop, strengthen, and implement academic programs that are responsive to the institute's mission and are systematically reviewed for sustained quality, relevance, and excellence to meet the challenges of a highly competitive and global workforce. Enhance institute's infrastructure to accommodate increase in intake, research, economic development, technology development and transfer; contribute to an enhanced quality of life in the region, and facilitate sustainable domestic and international economic development and competitiveness. Promote and sustain a campus environment that supports a high quality of life and learning that positively impacts retention through graduation and produces knowledgeable and culturally competent citizens able to lead effectively and compete globally. Improve academic interaction and participation of institutes / universities of national and international eminence in order to facilitate learning, innovation and research. Continuous and involved participation in teaching-learning process and research leading to joint mini and micro satellite mission with the participation of faculties and students.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 5

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description

Document

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

The institution has introduced Gender Sensitization course for all branches under the esteemed guidance of JNTUK. The institution is following an open and transparent system of selection based on merit for recruiting whether male or female.

The institution formed an anti-ragging committee to avoid and prevent ragging and unnecessary disturbance among the students.

The institution has grievances cell which looks after the issues pertaining to women in particular area. The cell also provides a gender – sensitive environment enabling women and men to maximize their potential. The cell deals with cases of sexual, psychological, emotional and physical harassment as per the capability of the college. The cell conducts different types of activities to encourage women to fight against any kind of injustice resulting from gender bias.

The campus is proved to be very secure due to its well-maintained security system, hostel for boys with good security. A fully functional health Centre to offer medical care for minor issues and first aid. The institution has established a separate room to take rest for students and staff, if required and it is provided

with other required facilities for women.

VITAM College of engineering is very concerned about health and security of students & staff and thus provided with a vehicle to attend any kind of emergency 24/7.

s during the rainy months. The stored water in the pond is rightly used for watering the avenue plantation.

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 150

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 3.41

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 0.6

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 17.6

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:

- Solid waste management

- **Liquid waste management**
- **E-waste management**

Response:

Solid waste management:

1. The Green-colored dustbins are meant for wet and bio degradable wastes.
2. Pink dustbins are meant for disposal of plastic wrappers and non-biodegradable wastes, also meant for papers and glass bottles.
3. Cleaning or emptying the dustbins is being done on a regular basis between 10:00-11am and 5:00 pm every day.
4. All bio degradable material is composted in pits.
5. Non-biodegradable waste are incinerated in designated pits.

Liquid waste management: Liquid waste from the points of generation like toilet is segregated and disinfected and let out into septic pits. Waste from the canteen and laundry is channeled to common drainage facility. External agencies are given contract for the disposal of solid waste.

E-waste management: In our college, there is a simple process of e-waste management .At the end-of computers useful life, they are collected from different locations of the campus by designated technicians and sent to our IT work shop. At the work shop, the computers are sometimes repaired and some are likely not repaired due to the level of damage. The un-repaired are inspected by the authorities and it's opened for disposal through contractors or vendors.

By the above methods the college strives to be a zero waste campus.

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rain water harvesting guarantees self-sustainability and also assures the natural resource as a valuable asset. Rain water gathering is an innovation utilized as a part of VITAM to gather, pass on and store Rain water for use generally from surfaces, for example, a roof, land surfaces, hill tops etc., Rain water harvesting frame work is financially less expensive in development contrasted with other sources. Rain water gathering frame work needs sufficient open space and mud ways to collect the rain waters. Rain water Harvesting pits are located two numbers at each block in our college and four numbers near to the hill; wherever water is likely to gather, i.e. from roof tops, hill slides, slopes, etc. These pits are dug with the help of staff and students before the commencement of rainy season. The pits each are dug of about 6×6×6 feet firstly filled with large stones, then smaller ones all of equal size. Finally the pits are filled with pebbles and then sand. This facilitated easy and even percolation of run-off water.

On the whole the rain water harvesting helped and accounted largely for raise of underground water level. As a result of this noble effort, the institute ensures with sustainable water supply throughout the year. Near to our college vicinity besides the approach road to college, a pond already existing is dug much deeper and cleared off mud and debris before the commencement of rainy season, this enabled much water storage accumulations during the rainy months. The stored water in the pond is rightly used for watering the avenue plantation.

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Response:

Some of the staff and students are utilizing bicycles those who are closer to the college for fuel reduction. The undeniable transport office gave 7 Busses for students and staff from different spots. The passerby inviting streets is to safeguard and improve students and staff and to support strolling as an alluring method for transportation and also for relaxation diversion and wellbeing.

Plastic free campus:

Our College energizes students and staff not to utilize plastic bags and plastic containers. The administration leading mindfulness programs on decreasing plastic things which is unsafe impact to the earth. Paperless office: Paper less framework is finished by changing over reports and different papers into advanced shape, a procedure known as digitization. "Going paperless" can save cash, support efficiency, save space, make documentation and information sharing easier, keep individual data more secure, and help the environment. Some paperless software offers a scanner, equipment and programming and works

flawlessly in isolating and sorting out vital records.

In the outside space at buildings and institutions, greenery offers users a place to rest and unwind in the urban condition. Trees reestablish human scale and make a characteristic stand out from elevated structures and current engineering. Greenery in open air spaces at structures and foundations additionally goes about as an associating zone or then again to make a limit. NSS provide service in planting, watering and keeping up the plants, greens, herbs and trees. Trees have about secured 1/2 of the college territory. They help to maintain the ecosystem. Planting an expansive number of trees in the surrounding villages Sontyam, Neelakundeelu, Mindivanipalem, Gudilova, Dibbavanipalem, is one of the normal highlights of the NSS Special Camps.

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.31

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
1.51	1.86	1.48	1.25	1.14

File Description

Document

Details of expenditure on green initiatives and waste management during the last five years

[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: A. 7 and more of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 5

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Details of initiatives taken to engage with local community during the last five years	View Document

<p>7.1.12 Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</p> <p>Response: No</p>
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<p>7.1.13 Display of core values in the institution and on its website</p> <p>Response: No</p>	
File Description	Document
Provide URL of website that displays core values	View Document

<p>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</p> <p>Response: Yes</p>	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

<p>7.1.15 The institution offers a course on Human Values and professional ethics</p> <p>Response: No</p>
<p>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</p> <p>Response: Yes</p>
<p>7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</p> <p>Response: 5</p>

File Description	Document
List of activities conducted for promotion of universal values	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The Institution organized following national festivals and birth/death anniversaries of the great Indian personalities. S.NO NAME OF THE EVENT DATE OF CONDUCT No.Of PARTICIPATES 2017-18 1 REPUBLIC DAY 2017 26th of January 100 2 NATIONAL YOUTH DAY (SWAMI VIVEKANANDA BIRTHDAY) 12th of January 60 3 SUBHAS CHANDRA BOSE BIRTHDAY 23rd of January 20 4 NATIONAL SCIENCE DAY February 28 50 5 WOMEN'S DAY March 8 50 6 INTERNATIONAL DAY OF YOGA June 21 100 7 INDEPENDENCE DAY OF INDIA August 15 150 8 TEACHERS DAY September 5th 100 9 GANDHI JAYANTI October 2 50 10 CHILDREN'S DAY 2017 November 14 50 11 engineers day September 14 100 2016-17 1 REPUBLIC DAY 2017 26th of January 100 2 NATIONAL YOUTH DAY (SWAMI VIVEKANANDA BIRTHDAY) 12th of January 60 3 SUBHAS CHANDRA BOSE BIRTHDAY 23rd of January 20 4 NATIONAL SCIENCE DAY February 28 50 5 WOMEN'S DAY March 8 50 6 INTERNATIONAL DAY OF YOGA June 21 100 7 INDEPENDENCE DAY OF INDIA August 15 150 8 TEACHERS DAY September 5th 100 9 GANDHI JAYANTI October 2 50 10 CHILDREN'S DAY 2017 November 14 50 11 engineers day September 14 100 2015-16 1 The Institution organized following national festivals and birth/death anniversaries of the great Indian personalities. S.NO NAME OF THE EVENT DATE OF CONDUCT No.Of PARTICIPATES 2017-18 1 REPUBLIC DAY 2017 26th of January 100 2 NATIONAL YOUTH DAY (SWAMI VIVEKANANDA BIRTHDAY) 12th of January 60 3 SUBHAS CHANDRA BOSE BIRTHDAY 23rd of January 20 4 NATIONAL SCIENCE DAY February 28 50 5 WOMEN'S DAY March 8 50 6 INTERNATIONAL DAY OF YOGA June 21 100 7 INDEPENDENCE DAY OF INDIA August 15 150 8 TEACHERS DAY September 5th 100 9 GANDHI JAYANTI October 2 50 10 CHILDREN'S DAY 2017 November 14 50 11 engineers day September 14 100 2016-17 1 REPUBLIC DAY 2017 26th of January 100 2 NATIONAL YOUTH DAY (SWAMI VIVEKANANDA BIRTHDAY) 12th of January 60 3 SUBHAS CHANDRA BOSE BIRTHDAY 23rd of January 20 4 NATIONAL SCIENCE DAY February 28 50 5 WOMEN'S DAY March 8 50 6 INTERNATIONAL DAY OF YOGA June 21 100 7 INDEPENDENCE DAY OF INDIA August 15 150 8 TEACHERS DAY September 5th 100 9 GANDHI JAYANTI October 2 50 10 CHILDREN'S DAY 2017 November 14 50 11 engineers day September 14 100 2015-16 1

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The prime concern of education is to **evolve the good, the true and the divine** in man so as to establish a moral life in the world. It should essentially make a man pious, perfect and truthful. The welfare of humanity lies neither in scientific or technological advancements nor in acquisition of material comforts. The main function of education is to enrich the character. What we need today more than anything else is moral leadership founded on courage, intellectual integrity and a sense of values.

Since education is a powerful instrument of social change and human progress, it is also a powerful tool to cultivate values in an individual. Therefore VITAM have greater responsibility to impart learning and cultivation of values through education.

For inculcating values implementing different ideas such as

- Provision of value based curriculum
- Designing special orientation program for teaching staff.
- Value based foundation courses
- Publication of literature based on values
- Necessity to develop code of conduct for staff and students
- Inculcation of philosophical view towards life among staff and students.

The most common steps which can be taken in our college to inculcate values include:

Teachers serve as role model to students in college; they play a major role in inculcating their ethical behavior.

Peers at college may also diffuse boldness about cheating, lying, stealing, and consideration for others. Though there are rules and regulations, our college infuses the value education to the students in an informal way. They play a major role in developing pro-social behavior in students.

Teaching Accountability

The students should be encouraged to be accountable for their own actions and should learn to respect and treat others kindly.

Playing Role model

The teachers are the first role model to the students outside their family. When the student sees the model showing concern for others, motivating them for their good deeds and cooperating and helpful with their academic issues, the students learn them by observing and imitate it with fellow peers.

Teaching Basic morals and values

The children are taught basic morals and values in college. They should be taught by emphasizing the idea through many activities, stories and tales, which will encourage them to engage in more helping behaviors.

For students with weaker moral development

Student's ability to develop a relationship with peers is critical to their wellbeing. These students have difficulty in understanding social or nonverbal cues and they lack the ability to reason. The teachers play a role in helping these rejected students learn to listen to peers and "hear what they say" instead of trying to dominate peers.

Neglected students are helped to attract and hold their attention from peers. They are taught to ask questions, listen, and help others to establish interest groups or clubs where they integrate in a positive way.

Objectives Of Faculty

- a) To inculcate Ethics and Human Values into the young minds.
- b) To impart the human values that ought to guide the Engineering profession.
- c) To develop moral responsibility and mould the engineers as best professionals.
- d) To resolve the moral issues and dilemma in the profession.
- e) To justify the moral judgment concerning the profession.
- f) To support dedicated and devoted faculty members becoming inspiring and effective role models.
- g) To make the students to behave in an ethical manner in the society.
- h) To educate them to develop the human values to promote social and natural integration.
- i) To create ethical vision and achieve harmony in life.

File Description	Document
Any additional information	View Document

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Some of the best practices followed in VITAM are:

- Encouraging the faculty for publishing research articles in the reputed journals and conferences by extending financial support
- Encouraging the faculty for attending workshops for improving technical expertise
- Encouraging the faculty for registering for Ph.D with financial support
- Conducting workshops and seminars
- Encouraging the students for doing innovative Projects/Hardware projects by extending financial support
- Students' industrial visits.
- Extended library hours to the hostellers resulted remarkable improvement in their academic

performance.

- Encourage students' participation in co-curricular and extracurricular activities.
- Arranging guest lectures by industrial experts and eminent academic ans and researchers.
- Introducing MOOCS in the curriculum as per JNTUK

Two of the best practices contributed to the achievement of the institutional Objectives and/or contributed to the quality improvement of the core activities of the college are enunciated below.

BEST PRACTICES-I:

1. Title of the Practice

Standardized procedures for periodic quality checks of Teaching and Learning

2. Objectives of the Practice

The objectives/intended outcomes of this best practice are:

- To ensure standardized quality learning and teaching experiences across all courses and programs and across differed modes of delivery.
- To improve student's learning experiences and outcomes.
- To identify and address professional development needs.
- To publish papers in refereed International/ National journals and conferences.
- To enhance quality in UG and PG projects.

3. The Context

Quality teaching is defined in terms of effective pedagogical techniques to achieve desired learning outcomes of students. It involves several dimensions, including the effective design of curriculum and course content, a variety of learning contexts (including guided independent study, project-based learning, collaborative learning, experimentation, etc.), soliciting and using feedback, and effective assessment of learning outcomes. Institutions need to ensure that the education they offer meets the expectations of students and the requirements of employers, both today and for the future.

The individual performance of each faculty member is a crucial factor in quality teaching. The unit plan designed by the faculty becomes the frame of reference to make the teacher accountable for the status of syllabus completion.

Through constant checks of teacher's documents which include their unit planners, academic records, teaching dairies etc., the institution finds scope to identify areas of deficiencies and also

take up appropriate FDP programmes for the betterment of their professional effectiveness and also for the quality enhancement of the academic programme.

4. The Practice

The procedures which constitute the implementation of the practice are as follows:

- Each department submits an annual report on the activities comprising academic activities, research and extension activities, innovations in teaching/learning, publications, staff and student achievements, extra and co- curricular activities to the IQAC.
- The teaching- learning process is continuously reviewed by the Principal, Vice Principal, Director /Dean by taking into account the feedback given by the students.
- Departmental meetings are conducted once a month and whenever needed. The minutes are documented and signed by Principal.
- Result analysis is submitted by the individual faculty. The result analysis of each department is submitted to the Principal after each semester.
- Syllabus completion statements are also periodically submitted by the individual teachers in order to ensure timely completion of the syllabus.
- Feedback is taken from the students at the end of every semester for teacher evaluation.

BEST PRACTICE -2

1. Title of the Practice-

Holistic approach for overall development of students by emphasizing co -curricular and extra-curricular activities.

1. Objectives of the Practice

- To improve the overall personality development
- To inculcate leadership and entrepreneurial traits
- To enhance communication and negotiations skills
- To augment social and human relations awareness
- To imbibe human values and professional ethics
- To train with planning and execution skills.

1. The context:

English is a tool that significantly enhances the growth of engineering students in academic life. To be successful in studies and campus interviews, it is an important to achieve English communication competence. Whether the students are from rural or urban areas they must possess good communication skills. To overcome all these problems students required to undergo regular training on soft

skills, communication skills, inter personal skills etc., right from the first year.

Ever changing technological advancements in engineering and technology necessitate students to expose them to latest software tools and gain knowledge on latest developments in the subject areas. Further exposure to the industry in the form of training makes the students to gain knowledge on industry requirements and practices.

1. The Practice:

A student must possess good personality skills in order to achieve their personal career. Each and every way a person did in his/her professional career is a stepping stone that he gained in student life. So a person should learn the knowledge of each and every skill in college campus right from the first year. Our college provides many personalities training program for the students. Those programs include soft skills training, communication skills development program, motivational classes etc. These programs built the critical thinking and decision making capabilities of a student. College provides aptitude, reasoning, verbal classes for the students in order to place in a reputed organization. These CRT skills help the students in a better way to achieve good placements in reputed organizations. These CRT skills help the students to prepare for competitive exams of government jobs also help the students to crack the entrance exams like CAT, GRE, GMAT, TOEFL etc.,

Conducting personality development programs regularly to develop soft skills and inter personal skills. Mock interviews by industry experts are conducted to instill confidence among the students by providing necessary inputs to face the interviews.

College also provides programming skills for the students. These skills help the students to place multinational companies. College conducts branch wise workshops for enhancing student growth towards their core side. Enhancing program skills by conducting special classes and arranging training by industry experts. These programming skills provide the opportunity to students to strengthen their knowledge on computer foundation courses and develop program skills.

Providing hands-on training on latest software tools such as MATLAB, PSPICE design, PHYTHON, HADOOP, CATIA etc., in pre final and final year by the industry experts. Organizing workshops on emerging technologies such as cloud computing, robotics, PCB layout designing, solar power energy etc., from second year onwards by eminent academicians and industry experts.

1. Evidence of success:

By providing these development programs for the students they can build up their mental ability and communication skills. These programs help to shaped out the inner skills of a student like critical thinking and decision making criteria etc,. By learning these skills a student learned about how to handle a particular situation after placing in a reputed organization.

This process has helped in improving soft skills, programming skill etc. of the students tremendously which has resulted in gradual increase in number of placements.

Providing hands-on experience to the students on latest software tools which has made them industry ready. Exposing the students to latest technologies so that they can chose a particular field and works on the related technology and secures suitable employment.

1. Problems Encountered and Resources Required:

In order to provide all these programs management made a decision and divided the faculty into teams. So they went to higher organizations and requested their higher authorities to take part in these programs. This is an initiative step that lay by our college management which yields good results.

While conducting various training programs, personality development programs and workshops on emerging technologies requires huge funding. Arranging internships in the industry to all the students is a challenging task to the administration. College needs to recruit more number of faculties and professional trainers to conduct these programs.

File Description	Document
Any additional information	View Document
Any additional information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Viswanadha Institute of Technology and Management popularly (VITAM) was founded by Viswanadha Educational Society, a non-profitable organization, with the prime vision of providing quality and value-based technical education at Visakhapatnam in 1998.

VITAM has a vibrant pool of young and experienced faculty who are renowned in their domains with national and international exposure in teaching, research and consultancy. Most teachers at VITAM are actively pursuing PhD and have published several papers in national and international papers. The college facilitates Industry-Institute through MoU's with Industries in and around Visakhapatnam for training, internships and placements.

The college offers training not only in academics and technical areas but also the in social skills, soft skills, ethical values and personality development. Student Chapters of Institution of Engineers (India) are active in all the Departments of the college in updating the technical know-how of the students. Students and faculty of VITAM regularly participate in technical seminars, conferences and workshops. The college provides job assistance program (Campus Recruitment Training) in the form of yearlong soft skills program to students of all years. Several students are being selected every year in campus selections of reputed national and multi-national companies and 90% of its alumni are well placed globally in organizations like Microsoft, Oracle, IBM, Google, TCS, Infosys, CTS, L&T, Cognizant, Atlas Capco, Google, Wipro and in Indian Public Sector too.

The college has a research wing, CORE (CENTRE OF EXCELLENCE and RELEVANCE) to provide hands-on experience to the students and facilitate them to get the live projects from local industries, defence establishments (NSTL, HSL etc.) so that the students are able to get potential source of employment.

VITAM is in vanguard of social service by adopting a nearby village, Dibbameedapalem in providing safe drinking water facility in the village. The NSS wing of VITAM regularly conducts Sanitation programmes, plantation, blood donation camps, literacy activities, SWATCH BHARAT, medical camps and clean & green programmes in villages in the vicinity of the college.

File Description	Document
Any additional information	View Document

5. CONCLUSION

Additional Information :

The institute routinely assesses its policies to benefit its stakeholders and thereby partake in development of the progressive world. In the works of our former president A.P.J. Abdul kalam “We are all born with a divine fire in us. Our efforts should be to give wings to this fire and fill the world with the glow of its goodness”. It’s the fire of knowledge that the institute envisions to the young minds to take on the challenges and shine.

Concluding Remarks :

Viswanadha Institute of Technology and Management in its 20th year is proud of having several members of its alumni at prestigious positions globally. The college aims to train not only in academics and technical areas but also the in social skills, soft skills, ethical values and personality development. The college has highly qualified and well experienced and dedicated faculty ready to impart academic and practical aspects of the subjects and equip the students to transcend the textbook brilliance. The faculties are renowned in their fields of specialization with national and international exposure in teaching, research and consultancy. While threats are plenty, the institute continues its mission in imparting quality education as set by its vision. ICT techniques have been introduced to aid effective teaching learning process. The need to increase focus on research and incubation activities is of utmost priority and the institute has initiated measures for the same. While all-round development is in continual focus, academic excellence for technical superiority is the sought for making students compete at global levels.